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UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESEARCH ADMINISTRATION
BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

INSECT PEST SURVEY

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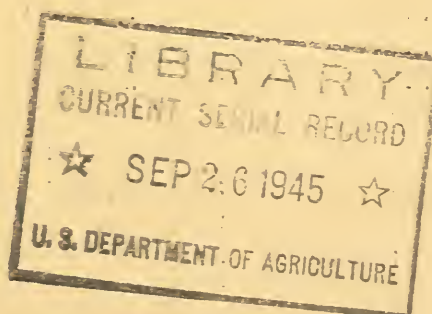
HESSIAN FLY SURVEY AT HARVESTTIME 1945

Summarized by W. B. Cartwright
Division of Cereal and Forage Insect Investigations
Bureau of Entomology and Plant Quarantine
Agricultural Research Administration

Field surveys made by the Bureau of Entomology and Plant Quarantine in cooperation with State agricultural agencies of Kansas, Oklahoma, Nebraska, Iowa, Missouri, Illinois, Ohio, New York, and Pennsylvania indicate that hessian fly infestations are low in California, Colorado, western and south-central Nebraska, western and eastern Kansas, northwestern Oklahoma, Iowa, Missouri, Arkansas, north, central, and southwestern Illinois, Michigan, northern Indiana, northern Ohio, New York, Pennsylvania, Delaware, Maryland, North Carolina, South Carolina, and Georgia. Infestations are moderate in north-central and eastern Nebraska, central Kansas, north-central and north-eastern Oklahoma, southeastern Illinois, southern Indiana, southern Ohio, east and south-central Tennessee, New Jersey, and Virginia. Heavy infestations, following an outbreak of the fly reported early in April by L. B. Scott and W. A. Price, occur in western and eastern Kentucky and north-central Tennessee.

With the exception of Kentucky and Tennessee, the infestations are not considered abnormally threatening. However, the general observance of the safe-seeding dates is recommended.

The data summarized in the following table, and the accompanying map, indicate more fully the regions covered by the survey and the general trend of infestations. A field sample in the survey usually consisted of 50 wheat stems.



Hessian fly survey at harvesttime 1945

Area	: Fields : : sampled :	Stems infested		
		Average	Maximum	Minimum
	Number	Percent	Percent	Percent
California ^{1/}	76	0.9	16	0
Colorado:				
Northeastern.....	25	3.3	30	0
Nebraska: ^{2/}				
Northwestern.....	4	4.5	10	0
Southwestern.....	19	7.2	46	0
North-central.....	11	9.6	40	0
South-central.....	90	5.7	32	0
Northeastern.....	14	7.7	36	0
Southeastern.....	122	13.0	58	0
Kansas: ^{2/}				
Northwestern.....	26	1.8	10	0
Southwestern.....	15	0.9	4	0
North-central.....	82	15.1	70	0
South-central.....	152	12.5	72	0
Northeastern.....	69	7.3	46	0
Southeastern.....	65	6.4	64	0
Oklahoma: ^{2/}				
Northwestern.....	9	0.7	2	0
North-central.....	40	10.8	94	0
Northeastern.....	30	9.5	32	0
Iowa ^{2/}				
Southwestern.....	28	3.9	22	0
South-central.....	6	5.6	14	0
Southeastern.....	8	0.0	0	0
Missouri: ^{2/}				
Northwestern.....	14	4.7	40	0
West-central.....	37	0.8	12	0
Southwestern.....	69	1.4	19	0
Northeastern.....	4	0.0	0	0
East-central.....	30	0.2	2	0
Southeastern.....	26	0.4	2	0
Arkansas:				
Northwestern.....	7	0.9	6	0
Illinois: ^{2/}				
North, central, and southwestern.....	122	3.4	26	0
Southeastern.....	59	14.0	51	0
Michigan:				
Southern.....	57	2.3	24	0

Hessian fly survey at harvesttime 1945--Continued

Area	Fields sampled	Stems infested		
		Average	Maximum	Minimum
	Number	Percent	Percent	Percent
Indiana:				
Northern.....	201	3.5	50	0
Southern.....	207	12.5	86	0
Ohio: ^{2/}				
Northern.....	-	4.8	-	-
Southern.....	-	13.4	-	-
Kentucky:				
Western.....	47	28.8	82	0
Eastern.....	34	27.1	64	0
Tennessee:				
West-central.....	33	38.5	100	0
South-central and east....	87	10.7	78	0
New York: ^{2/}				
Western.....	73	0.6	8	0
Pennsylvania: ^{2/}				
.....	104	4.5	56	0
New Jersey.....	23	9.0	58	0
Delaware.....	15	6.1	42	0
Maryland.....	61	6.4	50	0
Virginia.....	103	13.1	56	0
North Carolina				
Central.....	65	4.7	36	0
South Carolina:				
Western.....	28	1.2	12	0
Georgia.....	30	2.8	22	0

*

^{1/} Not included on the map.

^{2/} In cooperation with State entomologists.

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Numbers indicate percentage of stems infested. Cross-hatching indicates from moderate to heavy infestation.

